

BEST AVAILABLE COPY**RECEIVED
CENTRAL FAX CENTER****OCT 11 2006****Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A cooling system for an engine comprising:
an electronically controlled actuator responsive to a control signal;
~~an airflow adjusting mechanism~~ a variable speed fan coupled to said actuator that
adjusts airflow in the engine due to action of said actuator;
~~a coolant adjusting mechanism~~ variable speed pump coupled to said actuator that
adjusts coolant flow through the engine due to action of said actuator; and
a controller for generating said signal based on an engine operating condition, said
actuator to adjust said fan and pump throughout the entire range of engine operation.
2. (original) The system of claim 1, wherein said electronically controlled actuator is a
hydraulic actuator.
3. (original) The system of claim 1, wherein said electronically controlled actuator is a
pneumatic actuator.
4. (original) The system of claim 1, wherein said electronically controlled actuator is an
electro-mechanical actuator.

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5. (original) The system of claim 1, wherein said electronically controlled actuator is an electro-magneto-mechanical actuator.

6. (currently amended) The system of claim 1, wherein said airflow-adjusting mechanism is a variable speed fan is mechanically coupled to said actuator with a shaft, a pulley, or a clutch.

7. (currently amended) The system of claim 1, wherein said airflow-adjusting mechanism variable speed fan is a variable pitch blade fan.

8. (currently amended) The system of claim 1, wherein said coolant-adjusting mechanism is a variable speed pump is mechanically coupled to said actuator with a shaft, a pulley, or a clutch.

9. (currently amended) The system of claim 1, wherein said coolant-adjusting mechanism variable speed pump is a fixed-speed pump having an adjustable by-pass valve.

10. (currently amended) The system of claim 1, wherein said coolant-adjusting mechanism variable speed pump is a variable displacement pump.

11. (original) The system of claim 1, wherein said engine operating condition includes at least engine speed.

12. (original) The system of claim 1, wherein said engine operating condition includes at least engine coolant temperature.

13. (currently amended) A cooling system for an engine comprising:
an electronically controlled actuator adapted to receive an electrical control signal that varies with operation of the engine;
a fan mechanically coupled to said actuator, said fan adjusted by said actuator; and
a coolant adjusting mechanism mechanically coupled to said actuator, said mechanism and fan adjusted by said actuator throughout the entire range of engine operation.

14. (original) The system of claim 13, wherein said coolant adjusting mechanism is a variable speed pump.

15. (original) The system of claim 13, wherein said coolant adjusting mechanism is a fixed-speed pump having an adjustable by-pass valve.

16. (original) The system of claim 13, wherein said coolant adjusting mechanism is a variable displacement pump.

17. (original) The system of claim 13, wherein said fan is mechanically coupled to said actuator via a shaft.

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18. (original) The system of claim 13, wherein said fan is mechanically coupled to said actuator via a pulley.

19. (original) The system of claim 13, wherein said fan is mechanically coupled to said actuator via a clutch.

20. (original) The system of claim 13, wherein said mechanism is mechanically coupled to said actuator via a shaft.

21. (original) The system of claim 13, wherein said mechanism is mechanically coupled to said actuator via a pulley.

22. (original) The system of claim 13, wherein said mechanism is mechanically coupled to said actuator via a clutch.